

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510595

Luminaire Tested: **CST-CA10-760-730-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-760-730-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 108690 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

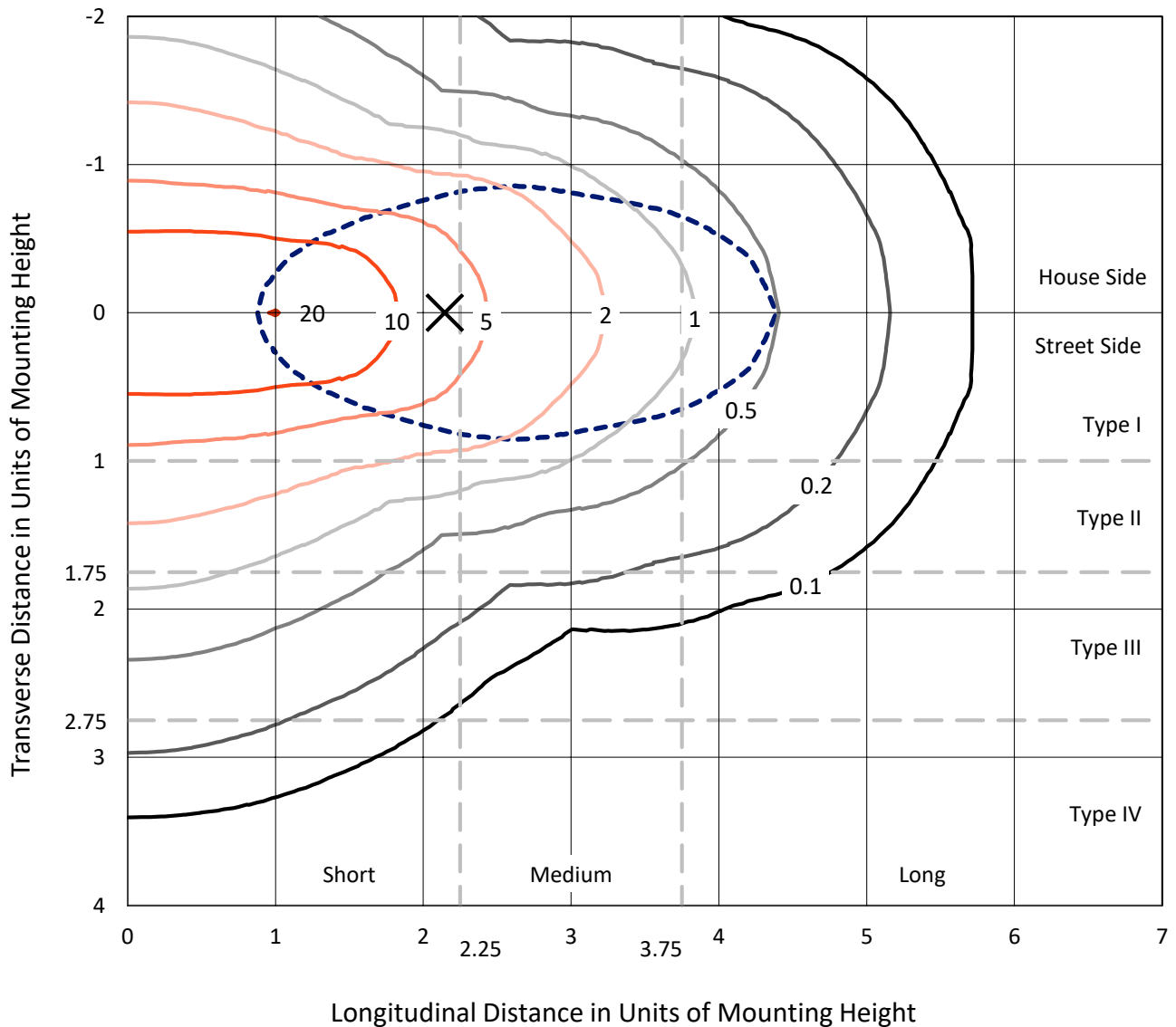
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

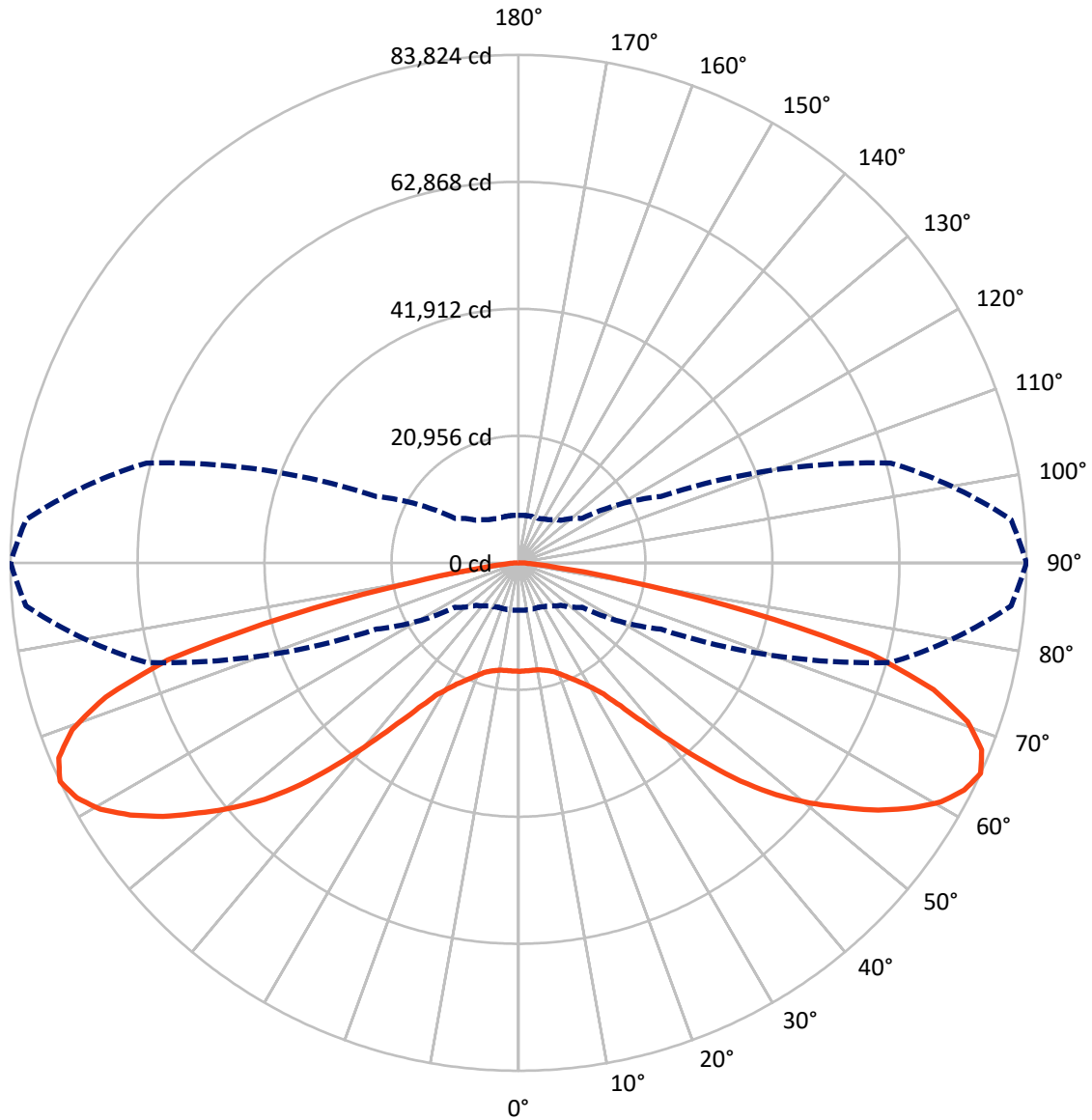
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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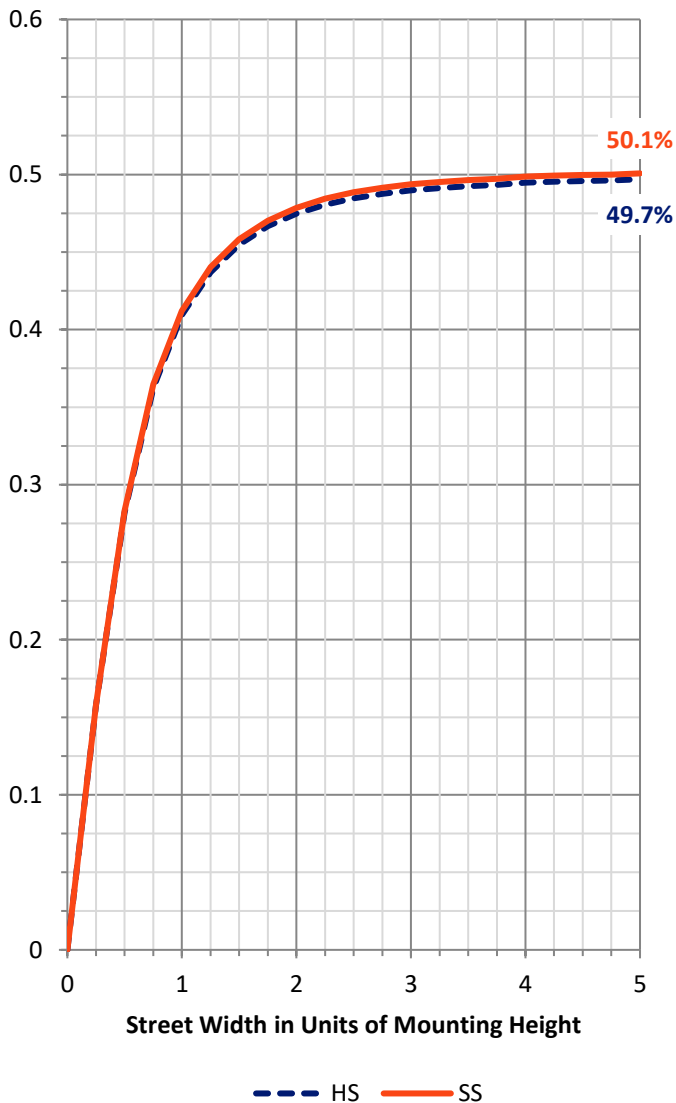
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	54345.0	0.0	54345.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	54345.0	0.0	54345.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	108690.0	0.0	108690.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1699.3	1.6
10°-20°	5014.5	4.6
20°-30°	8260.1	7.6
30°-40°	12102.1	11.1
40°-50°	17894.3	16.5
50°-60°	23472.8	21.6
60°-70°	24488.7	22.5
70°-80°	14079.7	13.0
80°-90°	1678.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	108690.0	100.0
0°-180°	108690.0	100.0

**Coefficient of Utilization**



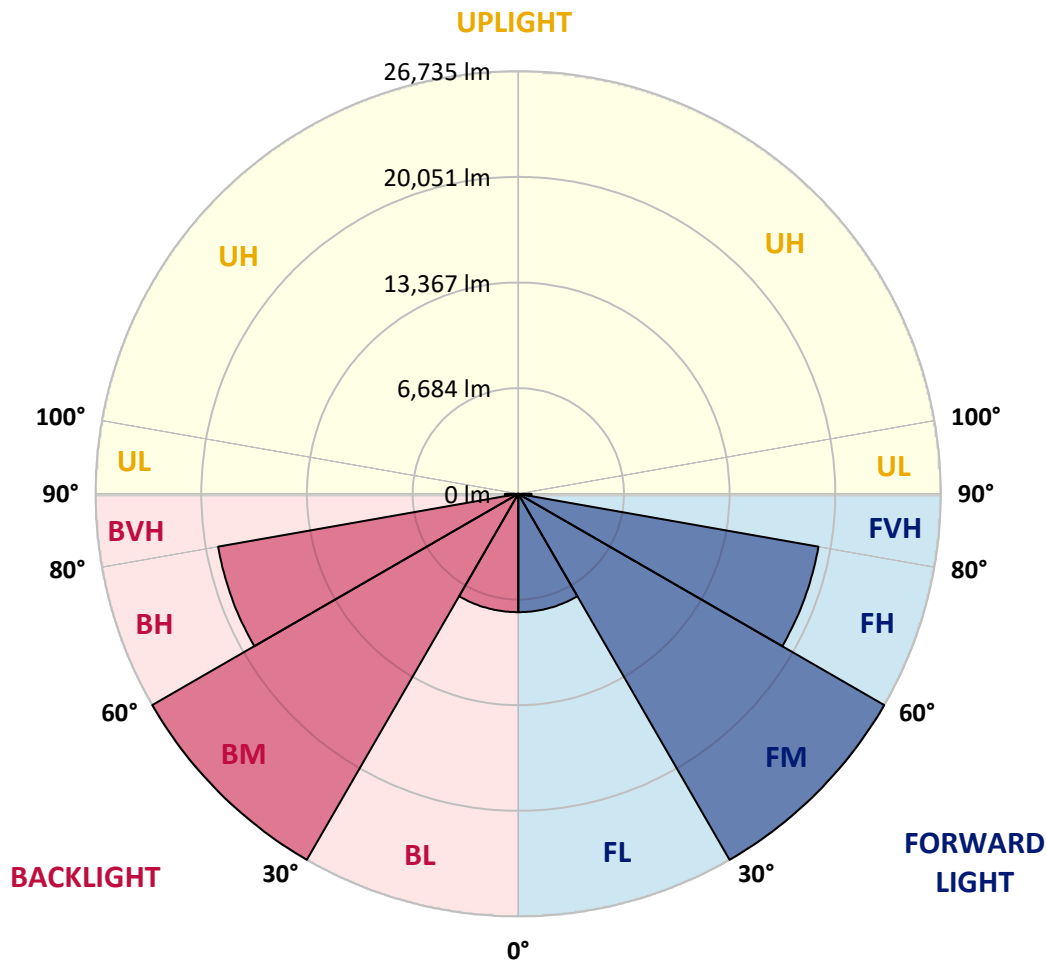
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7487.0	6.9			
FM (30°-60°)	26734.6	24.6			
FH (60°-80°)	19284.2	17.7			G5
FVH (80°-90°)	839.2	0.8			G5
BL (0°-30°)	7487.0	6.9	B5		
BM (30°-60°)	26734.6	24.6	B5		
BH (60°-80°)	19284.2	17.7	B5		G5
BVH (80°-90°)	839.2	0.8			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	17906.4	17906.4	17906.4	17906.4	17906.4	17906.4	17906.4	17906.4	17906.4	17906.4	17906.4
2.5°	17902.1	17889.4	17885.1	17878.7	17889.4	17897.9	17919.1	17938.2	17934.0	17929.7	17934.0
5°	17802.3	17808.6	17810.8	17812.9	17821.4	17827.8	17857.5	17887.2	17883.0	17878.7	17900.0
7.5°	17662.1	17662.1	17657.8	17653.6	17670.5	17685.4	17715.2	17744.9	17768.3	17789.5	17823.5
10°	17458.1	17449.6	17447.5	17445.4	17464.5	17481.5	17536.7	17591.9	17638.7	17683.3	17740.7
12.5°	17209.6	17207.4	17211.7	17215.9	17256.3	17296.7	17390.1	17483.6	17577.1	17670.5	17753.4
15°	16914.3	16888.8	16910.0	16929.1	16995.0	17058.7	17239.3	17419.9	17562.2	17702.4	17863.9
17.5°	16463.9	16438.4	16470.3	16500.0	16631.7	16763.4	17018.4	17271.2	17538.8	17806.5	18038.1
20°	15782.0	15782.0	15862.7	15943.4	16166.5	16389.6	16740.1	17088.5	17449.6	17810.8	18146.4
22.5°	15055.4	15034.2	15206.3	15378.3	15646.0	15911.6	16353.4	16795.3	17273.3	17749.2	18210.1
25°	14235.4	14271.5	14488.2	14702.8	15078.8	15452.7	15996.5	16538.3	17139.5	17740.7	18380.1
27.5°	13542.9	13549.3	13810.6	14071.9	14543.5	15013.0	15673.6	16334.3	17067.2	17800.1	18605.3
30°	12827.0	12943.8	13220.0	13494.0	14020.9	14547.7	15346.5	16143.1	17012.0	17880.9	18862.3
32.5°	12276.8	12304.4	12616.7	12926.8	13477.0	14027.2	14955.6	15883.9	16927.0	17970.1	19164.0
35°	11758.4	11803.0	12094.1	12385.1	12958.7	13530.1	14547.7	15563.2	16810.2	18055.1	19491.1
37.5°	11297.4	11352.7	11628.8	11905.0	12457.3	13009.7	14088.9	15168.0	16629.6	18091.2	19850.2
40°	10959.6	11006.4	11240.1	11473.7	11973.0	12470.1	13600.2	14728.3	16376.8	18025.3	20132.7
42.5°	10715.3	10736.6	10925.7	11114.7	11560.8	12007.0	13126.5	14243.9	16047.5	17851.1	20351.5
45°	10383.9	10430.7	10617.6	10802.4	11204.0	11603.3	12627.3	13651.2	15558.9	17464.5	20353.6
47.5°	10137.5	10167.3	10343.6	10517.8	10891.7	11265.6	12185.4	13105.3	15006.6	16905.8	20124.2
50°	9956.9	9942.1	10105.7	10267.1	10583.6	10898.0	11718.1	12535.9	14322.5	16109.1	19550.6
52.5°	9699.9	9716.9	9848.6	9980.3	10254.4	10526.3	11261.3	11994.2	13564.1	15131.9	18620.1
55°	9355.7	9434.3	9544.8	9653.2	9893.2	10133.3	10793.9	11454.6	12805.7	14154.7	17422.0
57.5°	9018.0	9075.3	9168.8	9262.3	9451.3	9638.3	10260.7	10883.2	12007.0	13130.8	15909.4
60°	8741.8	8756.7	8816.2	8873.5	9018.0	9162.4	9676.5	10190.6	11172.1	12151.4	14401.1
62.5°	8384.9	8389.2	8429.5	8469.9	8559.1	8646.2	9049.8	9451.3	10288.3	11125.4	12901.3
65°	7826.2	7860.2	7898.4	7934.5	7994.0	8051.4	8359.4	8667.4	9294.1	9920.8	11352.7
67.5°	7261.1	7231.4	7276.0	7320.6	7329.1	7337.6	7571.3	7805.0	8319.1	8833.2	9984.6
70°	6341.3	6364.6	6360.4	6354.0	6317.9	6279.7	6443.2	6606.8	6878.7	7148.5	7981.3
72.5°	4862.7	4830.8	4750.1	4667.3	4629.0	4590.8	4782.0	4971.0	5170.7	5370.4	5971.6
75°	2972.0	3063.3	3231.2	3396.9	3460.6	3524.3	3513.7	3501.0	3484.0	3467.0	4216.9
77.5°	2013.9	2062.8	2101.0	2137.1	2230.6	2321.9	2428.2	2534.4	2532.3	2530.1	3001.7
80°	1281.0	1242.8	1259.8	1276.7	1329.9	1383.0	1544.4	1703.7	1748.4	1790.8	2115.9
82.5°	803.0	809.4	830.6	849.7	790.3	730.8	856.1	979.3	1085.6	1189.6	1340.5
85°	520.5	590.6	580.0	569.3	499.2	429.1	539.6	650.1	701.0	749.9	807.3
87.5°	167.8	195.4	201.8	206.1	206.1	203.9	227.3	250.7	259.2	265.5	286.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	17906.4	17906.4	17906.4	17906.4	17906.4	17906.4	17906.4	17906.4
2.5°	17936.1	17914.9	17893.6	17887.2	17880.9	17876.6	17872.4	17868.1
5°	17919.1	17914.9	17910.6	17893.6	17876.6	17874.5	17872.4	17878.7
7.5°	17857.5	17857.5	17857.5	17876.6	17895.7	17887.2	17876.6	17889.4
10°	17795.9	17846.9	17897.9	17912.7	17927.6	17938.2	17948.8	17959.5
12.5°	17836.3	17923.3	18008.3	18057.2	18106.0	18131.5	18154.9	18161.3
15°	18025.3	18135.8	18246.3	18312.1	18375.8	18418.3	18460.8	18471.4
17.5°	18269.6	18439.6	18607.4	18703.0	18798.6	18847.5	18894.2	18879.3
20°	18479.9	18713.6	18947.3	19151.2	19355.2	19467.8	19578.2	19591.0
22.5°	18669.0	19062.0	19455.0	19718.4	19979.7	20179.4	20379.1	20400.4
25°	19017.4	19531.5	20045.6	20466.2	20886.9	21069.5	21250.1	21356.3
27.5°	19408.3	20096.6	20784.9	21347.8	21910.8	22189.1	22465.3	22480.1
30°	19841.7	20714.8	21585.8	22342.0	23096.2	23436.1	23773.9	23952.3
32.5°	20355.8	21464.7	22571.5	23565.7	24559.9	25076.1	25592.3	25772.9
35°	20925.1	22363.3	23799.4	25169.6	26537.7	27525.5	28513.4	28989.2
37.5°	21609.1	23440.4	25271.6	27330.1	29388.6	31073.2	32755.7	33235.8
40°	22240.1	24596.0	26949.8	29809.2	32668.6	35341.1	38011.4	38531.9
42.5°	22851.9	25702.8	28553.7	32454.1	36354.4	39931.9	43509.3	44862.5
45°	23240.7	26688.5	30134.3	35277.4	40420.5	45332.0	50241.5	51378.0
47.5°	23340.5	27391.7	31442.9	37813.9	44184.9	49965.3	55743.6	57203.0
50°	22992.1	27757.1	32522.1	40930.3	49336.5	55223.1	61107.6	62305.8
52.5°	22108.4	27640.2	33172.1	43345.7	53519.4	59750.2	65981.0	67068.6
55°	20689.3	26930.7	33172.1	45334.2	57494.1	63956.4	70416.6	72069.4
57.5°	18688.1	25575.3	32462.6	46661.9	60861.2	67880.1	74899.1	76384.0
60°	16650.8	23962.9	31272.9	47394.8	63516.7	70952.0	78387.3	80120.8
62.5°	14675.2	21772.7	28868.1	46625.8	64383.4	72233.0	80080.4	82574.4
65°	12784.5	19340.3	25896.1	44750.0	63601.7	72596.3	81588.7	83823.6
67.5°	11136.0	17307.3	23478.6	41605.9	59733.2	69688.0	79640.7	82425.7
70°	8814.0	14492.5	20170.9	36031.5	51892.1	63550.7	75209.2	78646.5
72.5°	6572.8	11388.8	16202.6	28343.4	40484.2	53891.1	67295.9	71621.2
75°	4964.7	9096.6	13228.5	22403.7	31578.8	42929.4	54279.9	60068.8
77.5°	3473.4	6572.8	9670.2	16514.9	23359.6	29643.5	35927.4	39012.0
80°	2438.8	4157.4	5873.9	9166.7	12457.3	15244.5	18029.6	17808.6
82.5°	1489.2	2211.5	2931.6	3976.8	5022.0	5695.4	6368.9	6339.1
85°	864.6	1051.6	1236.4	1531.7	1827.0	2160.5	2494.0	2217.8
87.5°	305.9	305.9	305.9	350.5	395.1	543.8	692.5	730.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CST-CA10-760-730-U-T1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)